

Part I

Estimates, Units, and Percentages

EUAP1.tex

Exercise 1 *How many inches are in a mile?* 63360 inches = 1 mile

EUAP2.tex

Exercise 2 *How many yards are in a mile?* 1,760 yards = 1 mile

EUAP3.tex

Exercise 3 *How many tablespoons are in a gallon?* 256 tablespoons = 1 gallon

EUAP4.tex

Exercise 4 *How many cups of gasoline could fit into a 15 gallon tank?* 240 cups = 15 gallons

EUAP5.tex

Exercise 5 *How many centimeters are in a kilometer?* 100000 cm = 1 km

EUAP6.tex

Exercise 6 *53 dekaliters is how many milliliters?* 530000 mL = 53 daL

EUAP7.tex

Exercise 7 How many decigrams are in a hectogram? $\boxed{1000}$ dg = 1 hg

EUAP8.tex

Exercise 8 How many millimeters are in a decimeter? $\boxed{100}$ mm = 1 dm

EUAP9.tex

Exercise 9 You go to a restaurant and end up with a bill for \$13.78. How much is a 20% tip? How much is an 18% tip? 20% = \$ $\boxed{2.76}$ 18% = \$ $\boxed{2.48}$

EUAP10.tex

Exercise 10 You have a coupon for 30% off and want to buy an item that is \$48.98.

How much money will you save? \$ $\boxed{14.69}$

How much money will you pay? \$ $\boxed{34.29}$

EUAP11.tex

Exercise 11 A paper company advertises on their box of 20 reams of printer paper that it is “99.99% jam free.” How many sheets of paper would you expect to lose, assuming when a paper jam happens, you “lose” that jammed piece of paper? (A ream of paper is 500 sheets). $\boxed{1}$ sheet(s) will jam

EUAP12.tex

Exercise 12 Suppose 485 people arrived at an event before 10 am. By the end of the event, we know there had been 1,673 total event attendees. What percent of the attendees arrived before 10 am? $\boxed{29}$ %

EUAP13.tex

Exercise 13 After a garage sale, you see that 35% of what was sold was old records. If 14 records were sold, how many total items were sold at the sale?

EUAP14.tex

Exercise 14 A student is conducting a survey for his/her statistics class. He/She decides to poll 20% of the 1200 full-time students on campus and 40% of the 4000 part-time students. What percent of the total student population did the student survey? %

EUAP15.tex

Exercise 15 A shop owner raises the price of a \$100 pair of shoes by 50%. After a few weeks, because of falling sales, the owner reduces the price of the shoes by 50%. What is the new price of the shoes (after both percent changes have occurred)? \$